

NEW RECORDS FOR SW ANATOLIA (C3)

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ABSTRACT. A list of 60 new records for SW Anatolia (vilayets of Isparta and Konya, square C3) is given.

The following plants, collected by the authors in the Turkish provinces of Isparta and Konya (C3) (see map, fig. 1.) during 1974 and 1975, are apparently new for the grid square as assessed by reference to the *Flora of Turkey and the East Aegean islands* vol. 1-5 and recent publications containing new floristic records for the Flora. In the new records cited below, Peşmen & Güner have been abbreviated to P. & G. Specimens on which records are based are kept in Ankara (Hacettepe) and Edinburgh (Royal Botanic Garden).

We are indebted to Dr P. H. Davis, I. C. Hedge and his colleagues on the herbarium staff at Edinburgh for checking the identifications presented here. Comments in square brackets are those of the Edinburgh botanists. The numbers in square brackets refer to volume and page number in the *Flora of Turkey*.

ASPLENIACEAE

Phyllitis sagittata (DC.) Guinea & Heywood [I:53]

C3 Isparta: Eğridir, Kapiz De. nr Yaka, shady limestone rocks, 1250-1450 m, 5 viii 1974, P. & G. 1898.

RANUNCULACEAE

Delphinium albiflorum DC. [I:113]

C3 Isparta: Eğridir, Kapiz De. nr Yaka, limestone rocks, 1250-1450 m, 5 viii 1974, P. & G. 1868.

Ranunculus heterorhizus Boiss. & Kotschy [I:182]

C3 Konya: Beyşehir, Suludere above Kurucuova, limestone rocks, alpine steppe, 8 vi 1975, P. & G. 2181.

Thalictrum orientale Boiss. [I:200]

C3 Isparta: Eğridir, Kapiz De. nr Yaka, limestone rocks, 1400 m, 20 v 1973, Peşmen 3491; Sütçüler, S slope of Sarp Da., limestone rocks, 1850 m, 26 v 1974, P. & G. 1116.

PAPAVERACEAE

Corydalis solida (L.) Schwartz subsp. *brachyloba* (Boiss.) Cullen & Davis [I:241]

C3 Isparta: Eğridir, Yaka, above Melikler Mezarlığı, limestone rocks, alpine steppe, 2000-2400 m, 19 v 1973, Peşmen 3397; Konya: Beyşehir, Suludere above Kurucuova, limestone rocks, 1500-2000 m, 8 vi 1975, P. & G. 2183.

CRUCIFERAE/BRASSICACEAE

Berteroa mutabilis (Vent.) DC. [I:360]

C3 Isparta: Eğridir, Kasnak Ormanı above Yukari Gökdere, limestone rocks, 1700 m, 11 vii 1974, P. & G. 1826. [Style a little longer than usual—up to 2.5 mm.]

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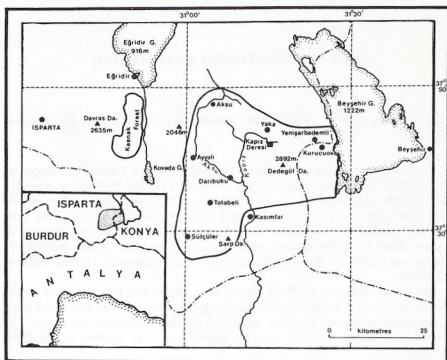


FIG. 1. Map showing study areas (continuous line) and province boundaries (dot & dash line and inset) in square C3.

***Alyssum dasycarpum* [Steph. ex] Willd. [I:375]**

C3 Isparta: Egridir, Buhran Çeşmesi between Ağılıköy and Yılanlı, *Pinus nigra* forest, 1200 m, 18 v 1973, *Peşmen* 3424.

***Alliaria petiolata* (M. Bieb.) Cavara & Grande [I:480]**

C3 Isparta: Egridir, Kapiz De. nr Yaka, limestone valley, 1400 m, 20 v 1973, *Peşmen* 3516.

***Camelina microcarpa* Andr. [I:492]**

C3 Isparta: Egridir, Yukarı Sayacak above Yaka, limestone, W slope alpine steppe, 2200 m, 10 vii 1974, *P. & G.* 1773.

CISTACEAE

***Helianthemum ledifolium* (L.) Miller var. *lasiocarpum* (Willk.) Bornm. [I:516]**

C3 Isparta: Egridir, between Yaka and Melikler Mezarlığı, *Pinus nigra* forest, 1300–1650 m, 30 vi 1974, *P. & G.* 1458. [Capsule slightly larger than usual.]

CARYOPHYLLACEAE

***Minuartia hybrida* (Vill.) Schischk. subsp. *turcica* McNeill [II:67]**

C3 Isparta: Sütlüce, between Belence and Ibişler, serpentine rocks, 900–1100 m, 27 v 1974, *P. & G.* 1163.

***Holosteum umbellatum* L. var. *umbellatum* [II:86]**

C3 Konya: Beyşehir, Kuzguntepe above Kurucuova, limestone rocks, *Pinus nigra* forest, 1350–1500 m, 24 iv 1974, *P. & G.* 1024.

***Moenchia mantica* (L.) Bartl. subsp. *caerulea* (Boiss.) Clapham [II:88]**

C3 Isparta: Sütlüce, Kuzcaalan nr Kuzca, damp pasture, 1350 m, 5 vi 1975, *P. & G.* 2062.

***Spergularia rubra* (L.) J. & C. Presl [II:94]**

C3 Konya: Beyşehir, between Musalla and Muslu above Kurucuova, alpine steppe, 1500–2000 m, 25 vii 1975, *P. & G.* 2254.

***Dianthus cibrarius* Clem. [II:130]**

C3 Isparta: Eğridir, Kapiz De. nr Yaka, limestone rocks, Pinus nigra forest, 1600 m, 1 vii 1974, P. & G. 1535; Kasnak ormanı above Yukari Gökdere, 1700 m, 11 vii 1974, P. & G. 1819.

***Silene capitellata* Boiss. [II:195]**

C3 Isparta: Eğridir, Yaka, above Pinargözü, limestone rocks, alpine steppe, 2000–2200 m, 19 v 1973, *Peşmen* 3449.

***S. armena* Boiss. aff. var. *armena* [II:198]**

C3 Isparta: Eğridir, Yaka, above Yukari Sayacak, limestone rocks, alpine steppe, 1770–2500 m, 10 vii 1974, P. & G. 1775; Kasnak ormanı, above Yukari Gökdere, 1700 m, 11 vi 1974, P. & G. 1807.

***S. lycaonica* Chowdh. [II:201]**

C3 Konya: Beyşehir, between Radar and Karagöl above Kurucuova, limestone rocks, 2400 m, 24 vii 1975, P. & G. 2262.

ILLECEBRACEAE

***Herniaria micrantha* A. K. Jackson & Turrill [II:247]**

C3 Isparta: Sütçüler, between Belence and Ibişler, serpentine rocks, 900–1100 m, 27 v 1974, P. & G. 1211.

***Paronychia arabica* (L.) DC. aff. subsp. *euphratica* Chaudhri [II:253]**

C3 Konya: Beyşehir, between Musalla and Muslu above Kurucuova, limestone rocks, damp pasture, 2000 m, 23 vii 1975, P. & G. 2237. [No material at E for comparison.]

POLYGONACEAE

***Polygonum setosum* Jacq. [II:274]**

C3 Konya: Beyşehir, between Musalla and Muslu above Kurucuova, limestone rocks, damp pasture, 2000 m, 23 vii 1975, P. & G. 2227.

CHENOPODIACEAE

***Polycnemum arvense* L. [II:296]**

C3 Konya: Beyşehir, between Musalla and Muslu above Kurucuova, limestone rocks, damp pasture, 2000 m, 23 vii 1975, P. & G. 2259.

***Chenopodium vulvaria* L. [II:303]**

C3 Konya: Beyşehir, between Musalla and Muslu above Kurucuova, limestone rocks, damp pasture, 2000 m, 23 vii 1975, P. & G. 2241.

TAMARICACEAE

***Tamarix parviflora* DC. [II:350]**

C3 Isparta: Sütçüler, between Belence and Ibişler, serpentine rocks, by stream, 900–1100 m, 27 v 1974, P. & G. 1200.

LINACEAE

***Linum austriacum* L. subsp. *austriacum* (atypical) [II:445]**

C3 Konya: Beyşehir, Suludere above Kurucuova, clearings of Pinus nigra forest, 1600 m, 8 vi 1975, P. & G. 2148.

RHAMNACEAE

***Frangula alnus* Miller subsp. *alnus* [II:525]**

C3 Isparta: Eğridir, Üçyıldız Çeşmesi between Pazarköy and Ayvalı, by stream, 1200 m, 6 viii 1974, P. & G. 1916.

LEGUMINOSAE/FABACEAE

***Chamaecytisus austriacus* (L.) Link. [III:20]**

C3 Isparta: Eğridir, Kasnak Ormanı above Gökdere, 1700 m, 11 ii 1974, P. & G. 1827. [*C. eriocarpus* (Boiss.) Roth does not seem to be specifically distinct from *C. austriacus*; a few intermediates occur in Anatolia.]

***Astragalus macrocephalus* Boiss. [III:71]**

C3 Konya: Beyşehir, Suludere above Kurucuova, limestone rocks, alpine steppe, 1900 m, 8 vi 1975, P. & G. 2203.

A. aff. amasiensis (Freyn) Bornm. [III:23]

C3 Isparta: Sütçüler, W slope of Sarp Da. nr Çobanisa, limestone rocks, *Pinus nigra* forest, 1450–1850 m, 26 v 1974, *P. & G.* 1128. [Bracts narrower than in other material of this species, except on one inflorescence. A considerable extension of range.]

A. chrysoclhorus Boiss. & Ky. [III:76]

C3 Konya: Beyşehir, between Radar and Karagöl above Kurucuova, limestone rocks, alpine steppe, 2000–2500 m, 24 vii 1975, *P. & G.* 2291.

Lathyrus aureus (Stev.) Brandza [III:333]

C3 Isparta: Eğridir, Kapiz De. nr Yaka, limestone rocks, 1200 m, 20 v 1973, *Peşmen* 3495.

Ononis sessilifolia Bornm. [III:376]

C3 Isparta: Eğridir, Yaka, chalky N. slope above Çamova, alpine steppe, 1980 m, 2 vii 1974, *P. & G.* 1600; Sütçüler, Totabeli nr Kuzca, limestone rocks, 1500 m, 5 vi 1975, *P. & G.* 2073.

Onobrychis caput-galli (L.) Lam. [III:565]

C3 Isparta: Sütçüler, between Belence and Ibişler, serpentine valley, mixed forest, 920–1100 m, 27 v 1974, *P. & G.* 1196.

ROSACEAE

Prunus divaricata Ledeb. subsp. *divaricata* [IV:11]

C3 Isparta: Eğridir, Buhran Çeşmesi between Ağilköy and Yılanlı, *Pinus nigra* forest, 1200 m, 18 v 1973, *Peşmen* 3429; Kapiz De. nr Yaka, limestone rocks, 1250–1450 m, 5 viii 1974, *P. & G.* 1883.

P. divaricata Ledeb. subsp. *ursina* (Kotschy) Browicz [IV:11] C3 Isparta: Eğridir, Kasnak Ormanı, limestone rocks, mixed forest, 1100 m, 3 vii 1974, *P. & G.* 1663. [Fruiting pedicels shorter than usual.]

Potentilla inclinata Vill. [IV:50]

C3 Isparta: Eğridir, between Melikler Mezarlığı and Melikler Taşı above Yaka, limestone rocks, alpine steppe, 1850 m, 9 vii 1974, *P. & G.* 1668; C3 Konya: Beyşehir, between Musalla and Muslu above Kurucuova, limestone rocks, alpine steppe, 1900 m, 23 vii 1975, *P. & G.* 2236.

P. detommasii Ten. [IV:52]

C3 Isparta: Eğridir, Kasnak Ormanı above Yukari Gökdere, 1700 m, 11 vii 1974, *P. & G.* 1823; above Camova nr Yaka Köyü, limestone rocks, alpine steppe, 1850 m, 2 vii 1974, *P. & G.* 1595.

Alchemilla retinervis Buser [IV:103]

C3 Isparta: Eğridir, between Melikler Mezarlığı and Karagöl above Yaka, meadow by stream, 2450 m, 8 viii 1974, *P. & G.* 1981 pro parte.

Rosa iberica Steven [IV:122] [or *R. pulverulenta* Bieb. × *R. canina* L., det. Zielinsky] C3 Isparta: Eğridir, between Yaka and Melikler Mezarlığı, *Pinus nigra* forest, 1300–1650 m, 30 vi 1974, *P. & G.* 1450.

R. heckeliana Tratt. subsp. *orientalis* (Dupont) Meikle [IV:127]

C3 Isparta: Eğridir, S slope of Dedegöl Da. above Oruçgazi Gedigi, limestone rocks, 1650 m, 7 viii 1974, *P. & G.* 1956.

Cotoneaster integerrimus Medik. [IV:130]

C3 Isparta: Eğridir, between Melikler Mezarlığı and Karagöl above Yaka, limestone rocks, c. 2000 m, 8 viii 1974, *P. & G.* 1971 (det. K. Browicz).

Sorbus torminalis (L.) Crantz var. *torminalis* [IV:156]

C3 Isparta: Sütçüler, between Belence and Ibişler, serpentine rocks, 920–1100 m, 27 v 1974, *P. & G.* 1185.

S. torminalis (L.) Crantz var. *pinnatifida* Boiss. [IV:156]

C3 Isparta: Eğridir, Kasnak Ormanı, limestone rocks, 1100 m, 3 vii 1974, *P. & G.* 1658.

ONAGRACEAE

Epilobium minutiflorum Hausskn. [IV:193]

C3 Isparta: Beyşehir, W shore of Beyşehir G. nr Kurucuova, 1200 m, 25 vii 1975, *P. & G.* 2309.

CRASSULACEAE

Sedum cepaea L. [IV:237]

C3 Konya: Beyşehir, between Musalla and Muslu above Kurucuova, limestone rocks, 2000 m, 23 vii 1975, *P. & G.* 2258.

PARNASSIACEAE

Parnassia palustris L. [IV:260]

C3 Isparta: Eğridir, S slope of Dedegöl Da. above Oruçgazi Gedigi, meadow by stream, 2000 m, 7 viii 1974, *P. & G.* 1945; Konya: Beyşehir, E. slope of Dedegöl Da. above Kuruçova, meadow by stream, 2400 m, 8 viii 1974, *P. & G.* 1979.

UMBELLIFERAE/APIACEAE

Scaligeria capillifolia Post [IV:336]

C3 Isparta: Eğridir, Kasnak Ormanı above Yukari Gökdere, 1700 m, 11 vii 1974, *P. & G.* 1803; Kapiz De. nr Yaka, shady limestone rocks, 1450 m, 5 viii 1974, *P. & G.* 1867. [det. e descr.]

Conium maculatum L. [IV:380]

C3 Isparta: Eğridir, Anamas, along stream, 1200 m, 6 vi 1975, *P. & G.* 2168.

Angelica sylvestris L. [IV:431]

C3 Isparta: Eğridir, Yaka, Kapiz De., limestone valley in *Pinus nigra* forest, 25 ix 1975, *P. & G.* 2317; *ibid.*, 5 viii 1974, *P. & G.* 1904.

Xanthogalum purpurascens Lallemand. [IV:432]

C3 Isparta: Eğridir, between Melikler Mezarlığı and Yaka, *Pinus nigra* forest, 1300–1650 m, 30 vi 1974, *P. & G.* 1454; Kapiz De. nr Yaka, limestone valley, 1250–1400 m, 25 ix 1975, *P. & G.* 2342. Growing with *Angelica sylvestris*.

Ferula rigidula DC. [IV:446]

C3 Isparta: Eğridir, Çamova nr Yaka, limestone rocks, 1700 m, 2 vii 1974, *P. & G.* 1641. *Orlaya daucooides* (L.) Greuter [IV:530]

C3 Isparta: Eğridir, Kapiz De. nr Yaka, steep limestone valley, 1400–1500 m, 28 v 1974, *P. & G.* 1306; Sütçüler, between Belence and Ibişler, serpentine valley, mixed forest, 920–1100 m, 27 v 1974, *P. & G.* 1180.

CAPRIFOLIACEAE

Viburnum opulus L. [IV:544]

C3 Isparta: Eğridir, Pazarköy, by stream, 1000 m, 10 vii 1974, *P. & G.* 1792.

VALERIANACEAE

Valerianella balansae Matthews [IV:568]

C3 Isparta: 2 km E. of Sütçüler, limestone rocks, in maquis, 100 m, 16 iv 1975, *P. & G.* 2032.

V. carinata Lois. [IV:571]

C3 Konya: Beyşehir, Kuzguntepe nr Kurucuova, limestone rocks, *Pinus nigra* forest, 1350–1500 m, 24 iv 1974, *P. & G.* 1022.

COMPOSITAE/ASTERACEAE

Solidago virgaurea L. subsp. *virgaurea* [V:117]

C3 Isparta: Eğridir, Kapiz De. nr Yaka, steep limestone rocks, *Pinus nigra* forest, 1250–1400 m, 25 ix 1975, *P. & G.* 2332.

Erigeron acer L. subsp. *acer* [V:128]

C3 Isparta: Eğridir, Üçyıldız Çeşmesi between Pazarköy and Ayvalı, streamside, 1200 m, 6 viii 1974, *P. & G.* 1915.

Artemisia absinthium L. [V:318]

C3 Isparta: Eğridir, Kasnak Ormanı above Yukari Gökdere, clearings of mixed forest, limestone rocks, 1700 m, 11 vii 1974, *P. & G.* 1818; C3 Konya: Beyşehir, between Musalla and Muslu above Kurucuova, limestone rocks, alpine steppe, 1800 m, 23 vii 1975, *P. & G.* 2246.

Carduus tmoleus Boiss. [V:423]

C3 Isparta: Eğridir, Yaka, above Yukari Sayacak, limestone rocks, alpine steppe, 1770–2490 m, 10 vii 1974, *P. & G.* 1784. [*C. olympicus* Boiss. may prove conspecific. *P. & G.* 1784 has the involucre of *C. tmoleus*, but in leaf shape is closer to *C. olympicus*.]

Tragopogon bupththalmoides (DC.) Boiss. var. *bupththalmoides* [V:664]

C3 Isparta: Eğridir, S slope of Dedegöl Da. above Oruçgazi Gedigi, limestone rocks, 1650–2170 m, 7 viii 1974, *P. & G.* 1961.

Lapsana communis L. subsp. *intermedia* (Bieb.) Hayek [V:787]

C3 Isparta: Eğridir, Yaka to Melikler Mezarlığı, metamorphic rocks, 1600 m, 30 vi 1974, *P. & G.* 1451.